CW/HW#100: Inscribed vs. Circumscribed

Honors Geometry  
Due: Wednesday, March 23rd, 2016

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

YWBAT draw inscribed and circumscribed shapes.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Draw a square inscribed in a circle. | | 2. Draw a triangle circumscribed by a circle. | |
| 3. Draw a circle inscribed in a square. | | 4. Draw a circle circumscribed by a quadrilateral. | |
| 5. Draw in the radius.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.16.32 PM.png | | 6. Draw in the radius.  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.16.16 PM.png | |
| 7. What would you call this?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.25.08 PM.png | 8. What would you call this?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.25.08 PM.png | | 9. What would you call this?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.25.08 PM.png |

|  |  |
| --- | --- |
| 7.  a, What is the radius of the circle?  b. What is the side length of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.57 PM.png | 8.  a. What is the radius of the circle?  b. What is the side length of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.20.08 PM.png |
| 9.  a. What is the radius of the circle?  b. What is the side length of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.24 PM.png | 10.  a. What is the radius of the circle?  b. What is the side length of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.41 PM.png |
| 11.  a. What is the radius of the circle?  b. What is the side length of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.48 PM.png | 12.  a. What is the radius of the circle?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.29.03 PM.png |

|  |  |
| --- | --- |
| 13.  a, What is the area of the circle?  b. What is the area of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.57 PM.png | 14.  a. What is the area of the larger circle?  b. What is the area of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.20.08 PM.png |
| 15.  a. What is the area of the circle?  b. What is the area of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.24 PM.png | 16.  a. What is the area of the circle?  b. What is the area of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.41 PM.png |
| 17.  a. What is the area of the circle?  b. What is the area of the square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.48 PM.png | 18.  a. What is the area of the circle?  b. What is the area of the inner square?  c. What is the area of the outer square?  Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.29.03 PM.png |

Review:

|  |  |
| --- | --- |
| 19. How do you find area of a circle? | 20. How do you find circumference of a circle? |
| 21. How are radius and diameter related? | 22. Explain the difference between inscribed and circumscribed shapes. |
| 23. Is the pentagon inscribed in the circle? Why or why not. | 24. If the diameter is 18.  a. What is the area of a circle?  b. What is the circumference? |
| 25. Sarah said the area of the octagon was less that 9π. Do you agree with her answer? Explain.  3 | 26. If the area of a circle is 25π.  a. What is the radius?  b. Draw a picture.  c. What is the circumference? |